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<u>L13</u>	L12 and (size with align\$4 with (partition or segment or region or portion or section or sector))	0	<u>L13</u>
<u>L12</u>	L11 and ((table or map\$4) near8 (partition or segment or region or portion or section or sector))	19	<u>L12</u>
<u>L11</u>	L10 and ((memory or storage or disk) near6 (partition\$4 or portion\$4 or section\$4 or segment\$4 or region or bisect\$4 or break\$4 or brok\$4 or sector\$4 or divi\$4))	225	<u>L11</u>
<u>L10</u>	L8 or granularity or ((memory or storage) adj2 pool)	4787	<u>L10</u>
<u>L9</u>	L8 and ((table or map\$4) near8 (partition or segment or region))	0	<u>L9</u>
<u>L8</u>	buddy adj2 (system or space or segment)	33	<u>L8</u>
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<u>L7</u>	L6 and (size with align\$4 with (partition or segment or region or portion or section or sector))	31	<u>L7</u>
<u>L6</u>	L5 and ((table or map\$4) near8 (partition or segment or region or portion or section or sector))	2079	<u>L6</u>
<u>L5</u>	L4 and ((memory or storage or disk) near6 (partition\$4 or portion\$4 or section\$4 or segment\$4 or region or bisect\$4 or break\$4 or brok\$4 or sector\$4 or divi\$4))	5928	<u>L5</u>

<u>L4</u>	(l1 or granularity or ((memory or storage) adj2 pool))	19475	<u>L4</u>
<u>L3</u>	L2 and l1	12	<u>L3</u>
<u>L2</u>	(table or map\$4) near8 (partition or segment or region)	55839	<u>L2</u>
<u>L1</u>	buddy adj2 (system or space or segment)	140	<u>L1</u>

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997

Proceedings of the 1997 conference of the Centre for Advanced Studies

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [A model of multimedia information retrieval](#)

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001

Journal of the ACM (JACM), Volume 48 Issue 5

Full text available:  [pdf\(5.69 MB\)](#)

Additional Information: [full citation](#)

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A number of fields of computer science. The resulting richness of paradigms, methods and systems may, on the one hand, promote an integration of methods and techniques for MIR by contributing a conceptual model ...


Keywords: Description logics, fuzzy logics, multimedia information retrieval

3 [Virtual Memory](#)

Peter J. Denning

September 1970

ACM Computing Surveys (CSUR), Volume 2 Issue 3

Full text available:  [pdf\(2.63 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index](#)

4 [Video Processing: Multimedia edges: finding hierarchy in all dimensions](#)

Malcolm Slaney, Dulce Ponceleon, James Kaufman

October 2001

Proceedings of the ninth ACM international conference on Multimedia

Full text available:  [pdf\(6.41 MB\)](#)

Additional Information: [full citation](#)

This paper describes a new unified representation for the information in a video. We reduce the color-mel-frequency cepstral coefficients (on the audio data) and then concatenate the vectors to form a video's path, which we call edges. We use these techniques to analyze the temporal properties ...

Keywords: audio, automatic segmentation, color space, hierarchy, images, latent semantic index

5 [Disco: running commodity operating systems on scalable multiprocessors](#)

Edouard Bugnion, Scott Devine, Kinshuk Govil, Mendel Rosenblum

November 1997

ACM Transactions on Computer Systems (TOCS), Volume 15 Issue 4

In this article we examine the problem of extending modern operating systems to run efficiently on an idea popular in the 1970s: virtual machine monitors. We use virtual machines to run multiple challenges facing the system software for these machines. We demonstrate our approach with a p


Keywords: scalable multiprocessors, virtual machines

6 On-line extraction of SCSI disk drive parameters

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt, John Wilkes

May 1995

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the computer systems, Volume 23 Issue 1

Full text available:  pdf(1.21 MB)

Additional Information: [full citation](#)

Sophisticated disk scheduling algorithms require accurate, detailed disk drive specifications, including overheads, and logical-to-physical block mappings. Comprehensive disk models used in storage system techniques for acquiring the necessary information from a SCSI disk drive. Using only the ANSI-st

7 Cache Memories

Alan Jay Smith



September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(4.61 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [ind](#)

8 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)  html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [ind](#)

9 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985

ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available:  pdf(4.07 MB)

Additional Information: [full citation](#)

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical principles that have guided this development. We then present the internal data structures and ...

10 RAID: high-performance, reliable secondary storage

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson

June 1994

ACM Computing Surveys (CSUR), Volume 26 Issue 2

Full text available:  pdf(3.60 MB)

Additional Information: [full citation](#)

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework for the driving forces that have popularized disk arrays: performance and reliability. It discusses the t

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping

11 Disco: running commodity operating systems on scalable multiprocessors

Edouard Bugnion, Scott Devine, Mendel Rosenblum

October 1997

ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth AC

Full text available:  pdf(2.30 MB)

Additional Information: [full citation](#), [references](#), [citi](#)

12 Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee


October 1997

ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth AC

13 Geographic Data Processing

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Full text available:  pdf(4.20 MB)



Additional Information: [full citation](#), [references](#), [citi](#), [index terms](#)

14 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997

Computational Linguistics, Volume 23 Issue 1

Full text available:  pdf(2.46 MB)  [Publisher Site](#)

Additional Information: [full citation](#)

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, and distribution. The algorithm is fully implemented and is shown to produce segmentation that co segmentation should be useful for many text analysis tasks, including information retrieval and ...

15 A history of the Promis technology: an effective human interface

Jan Schultz

January 1986

Proceedings of the ACM Conference on The history of personal workst

Full text available:  pdf(2.61 MB)

Additional Information: [full citation](#)

Scientific computing systems for individuals were pioneered early at Hewlett-Packard, beginning with Peripherals, such as Printers, Tape Cartridges, and Plotters, and followed by Graphic CRT Displays breaking HP 35A. This paper traces the evolution of these machines to the present day, ...

16 Novelty and topic change: Domain-independent text segmentation using anisotropic diffusion

Xiang Ji, Hongyuan Zha

July 2003

Proceedings of the 26th annual international ACM SIGIR conference o

Full text available:  pdf(171.61 KB)

Additional Information: [full citation](#)

This paper presents a novel domain-independent text segmentation method, which identifies the components: As a preprocessing step, we eliminate the *document-dependent* stop words as well as of the sentence semantic information. Then the cohesion information of sentences in a document is

Keywords: anisotropic diffusion, document-dependent stop words, dynamic programming, text s

17 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pl

October 2003

Proceedings of the nineteenth ACM symposium on Operating systems

Full text available:  pdf(168.76 KB)

Additional Information: [full citation](#)

Numerous systems have been designed which use virtualization to subdivide the ample resources systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual mac

Keywords: hypervisors, paravirtualization, virtual machine monitors

18 Controlled perturbation for arrangements of polyhedral surfaces with application to swept vo

Sigal Raab

June 1999

Proceedings of the fifteenth annual symposium on Computational geometry

Full text available:  pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [citi](#), [index terms](#)

Optimal decomposition of polygonal models into triangle strips

Regina Estkowski, Joseph S. B. Mitchell, Xinyu Xiang

June 2002

Proceedings of the eighteenth annual symposium on Computational g

Full text available:  [pdf\(226.31 KB\)](#)

Additional Information: [full citation](#)

Motivated by applications in computer graphics, we study the problem of computing an optimal triangulation of a polygonal model by decomposing its triangulation into a minimum number of triangle strips. While this optimization problem has been conjectured to be hard, its complexity status has ...


Keywords: NP-completeness, branch and bound, integer programming, rendering, triangle strips,

20 Managing stored voice in the Etherphone system

Douglas B. Terry, Daniel C. Swinehart

February 1988

ACM Transactions on Computer Systems (TOCS), Volume 6 Issue 1

Full text available:  [pdf\(2.03 MB\)](#)

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The voice manager in the Etherphone system provides facilities for recording, editing, and playing as voice mail, annotation of multimedia documents, and voice editing using standard text-editing techniques accessible via the local internet. Operations for editing a passage of ...

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